

Details

Berlin Experimental Radionuclide Imaging Center (BERIC)

In-vivo small animal imaging plays an increasingly important role in preclinical and translational research, because imaging allows to non-invasively generate functional and morphological data in longitudinal imaging series within one animal. BERIC offers high-resolution anatomical imaging in combination with quantitative functional radionuclide imaging by using hybrid imaging systems such as positron emission tomography (PET) and magnetic resonance imaging (MRI) in case of small animal PET/MRI and single photon emission tomography (SPECT) and computed tomography (CT) in case of small animal SPECT/CT.

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[To website](#)

Host Institution

Charité - Universitätsmedizin Berlin
Charitéplatz 1
10117 Berlin
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<http://www.charite.de>

Scientific Domain

Primary Subjects:

- Biology
- Medicine

Secondary Subjects:

- Agriculture, Forestry, Horticulture and Veterinary Medicine
- Chemistry
- Physics

Category

Biomedical Imaging Facilities

Scientific Services

With respect to legal requirements and the core facility work rules, BERIC offers: preclinical PET/MR and SPECT/CT imaging by trained staff, use of preclinical PET/MR and SPECT/CT scanners by trained and qualified users, preparation of imaging studies and data postprocessing, preparation of radioactive tracers, guidance for study design, selection of tracers and imaging methodologies, quantitative data processing, kinetic modeling, biostatistics, husbandry of radioactive mice and rats, training and instruction of users, support for compliance with legal and radiation issues, and animal welfare

Scientific Equipment

- small animal SPECT/CT
- small animal PET/MRI
- radiochemistry laboratory
- husbandry for radioactive animals

Keywords

- SPECT
- PET
- MRI
- small animal imaging
- radiochemistry
- quantitative image processing
- in-vivo tracer kinetics
- biokinetics

Networks

German Cancer Consortium

<https://www.dkfz.de/de/dtkk/>

Users per annum

Internal Users: 10 AGs

External Users in total: 3

External Users: 3

External Users in the EU: 0

External Users outside of EU: 0